

## **LASER-HYBRID WELDING WITH BEAM OSCILLATION**

### **Abstract of the Disclosure**

A method of welding metal components together including moving a laser beam in a first direction along an interface between a pair of metal components such that in the vicinity of the focused beam, metal from each component is vaporized to produce a keyhole in a pool of molten metal. The laser beam is oscillated in a direction different from (e.g., transverse to) the first direction such that the keyhole oscillates through the pool of molten metal and molten metal fills into the keyhole as the position of the keyhole changes.